

FIG. 1

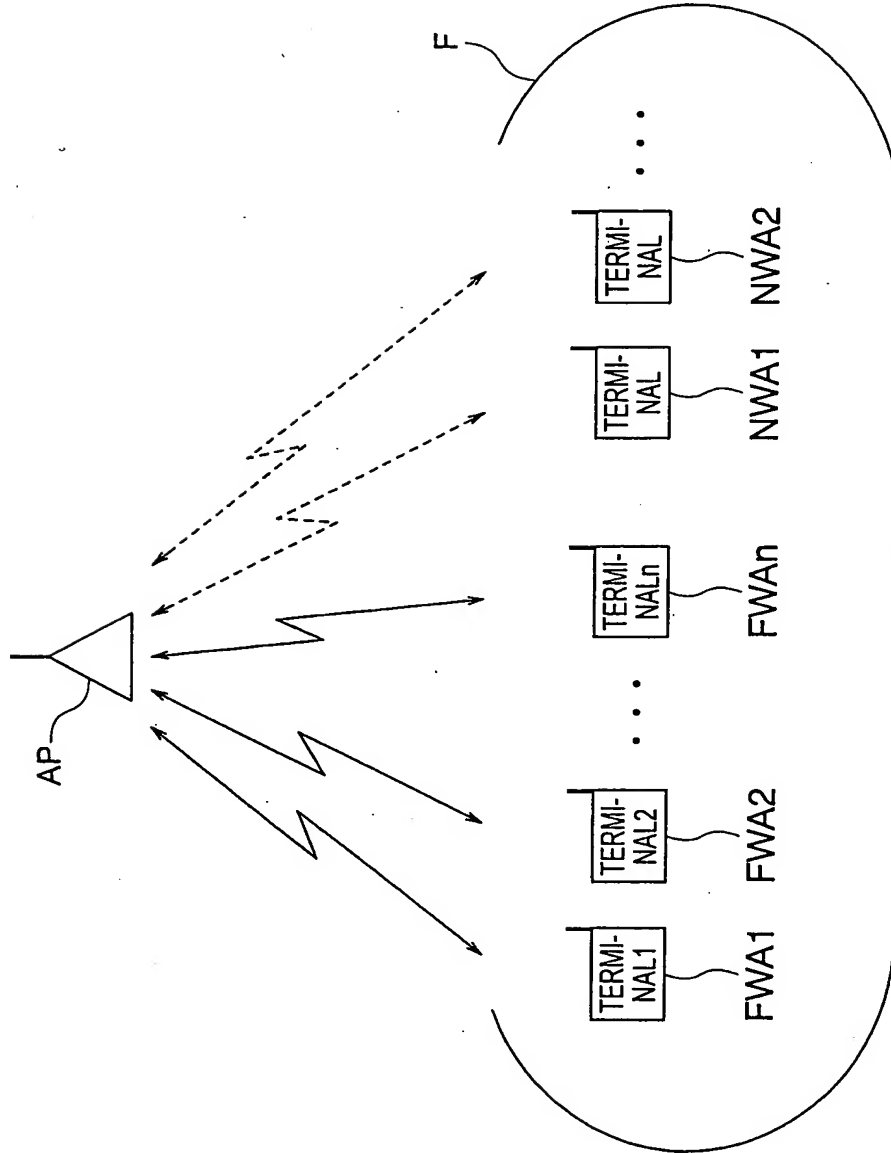
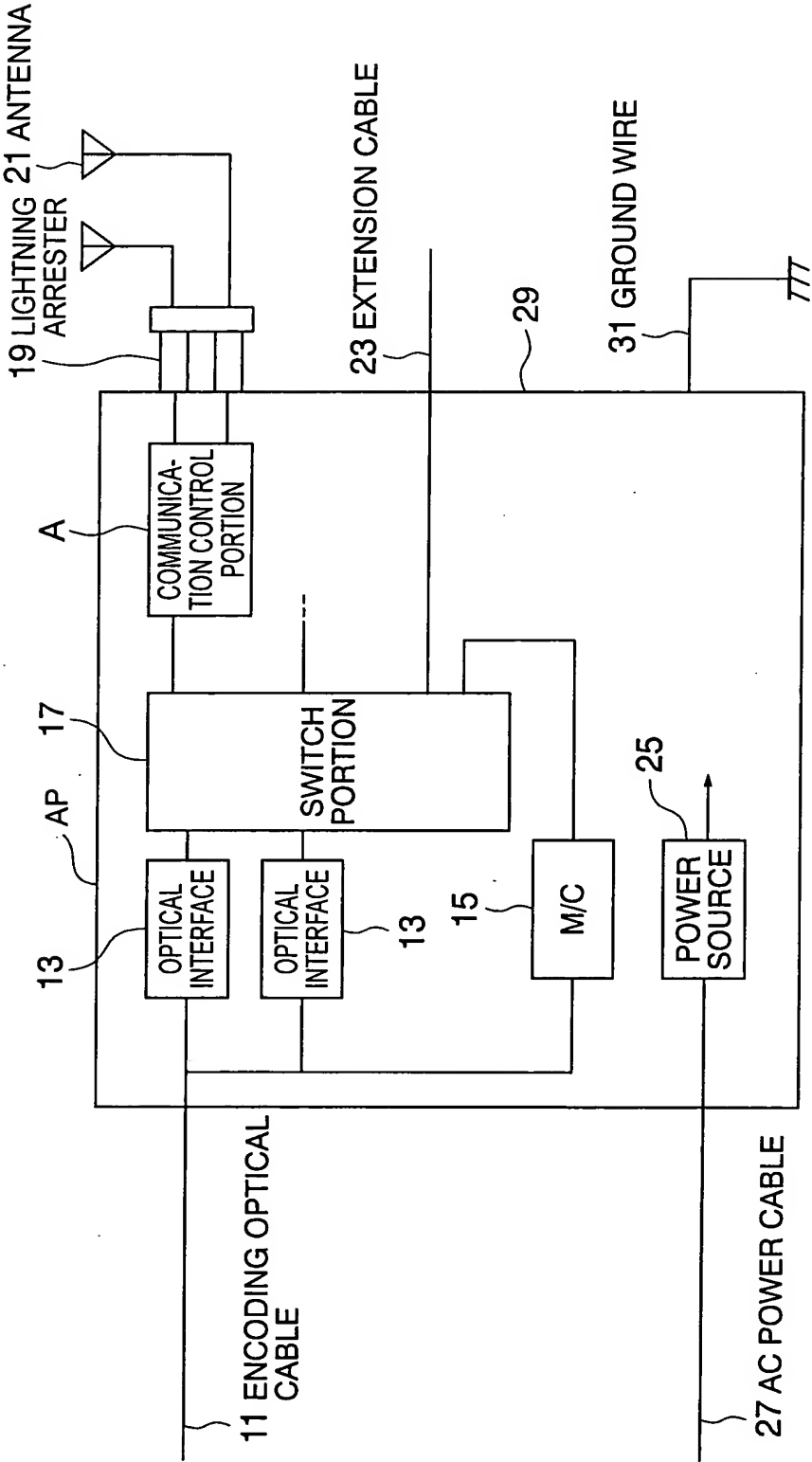


FIG. 2



AP

FIG. 3

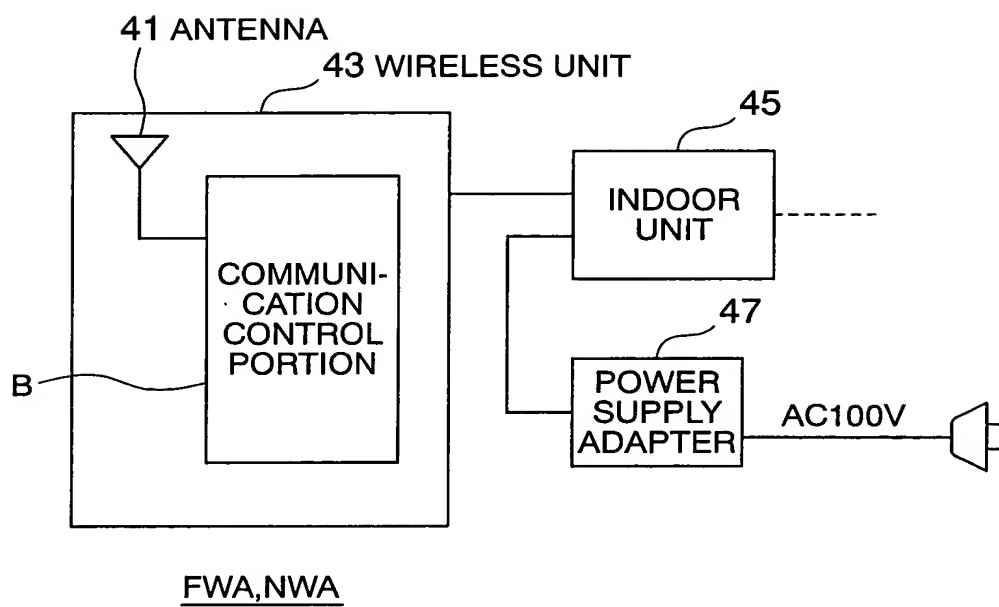


FIG. 4

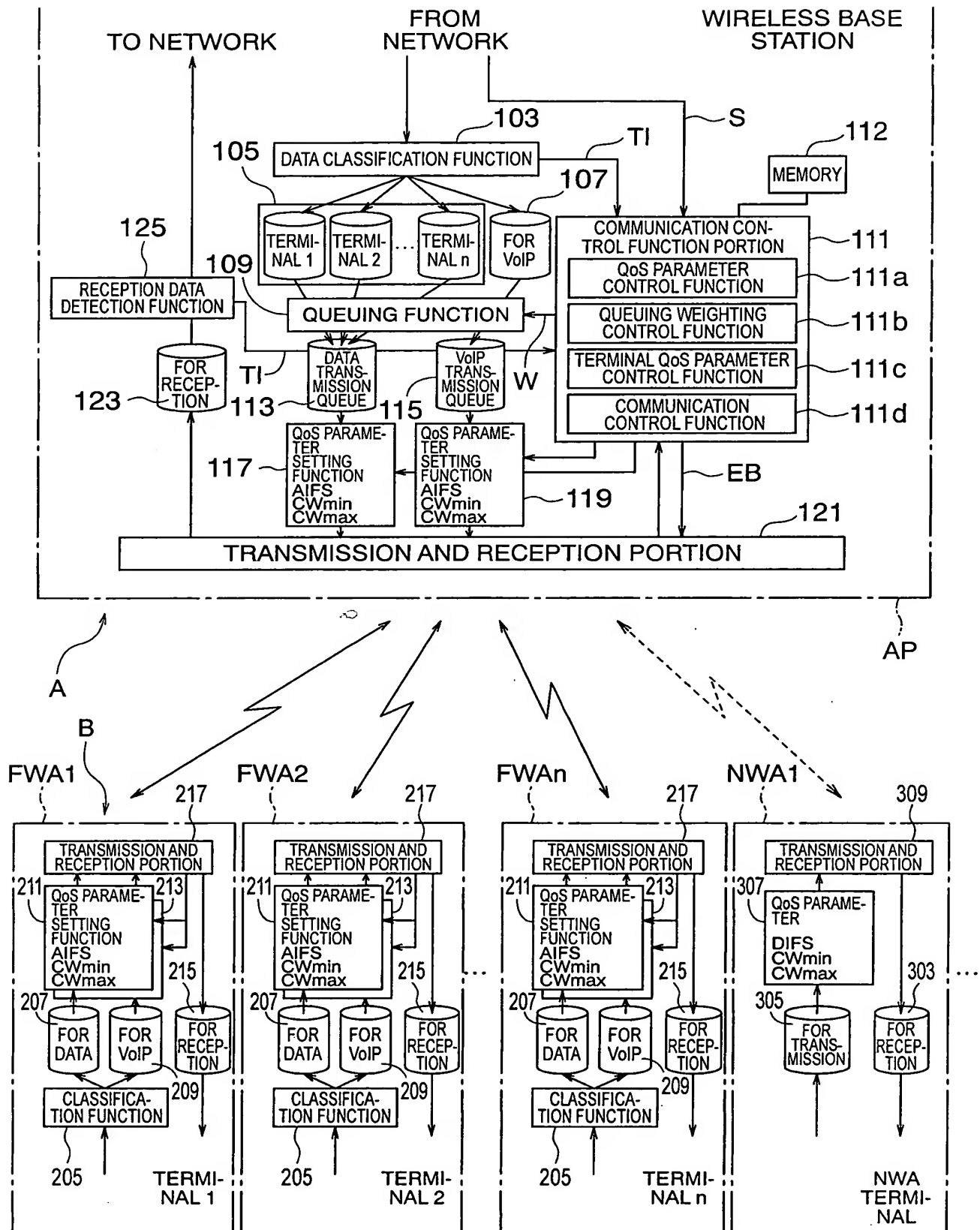
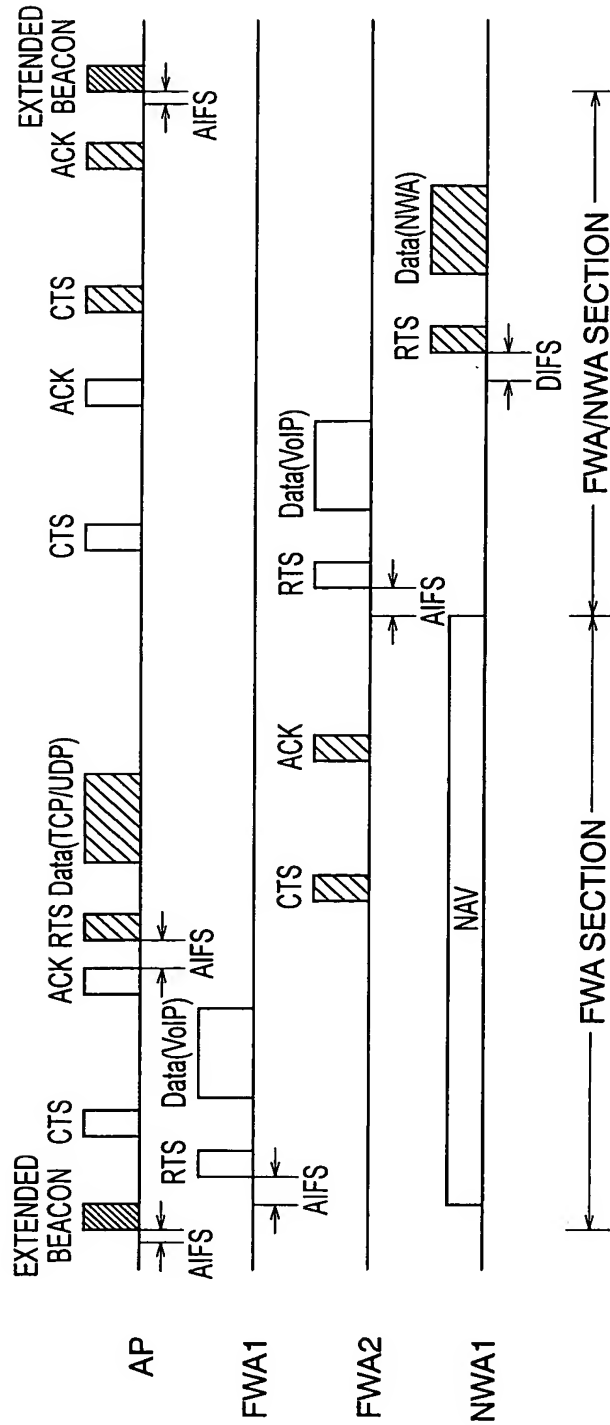


FIG. 5

	PRESENCE OR ABSENCE OF DOWNSTREAM FWA ORDINARY DATA TRANS- MISSION	PRESENCE OR ABSENCE OF UPSTREAM FWA ORDINARY DATA RECEPTION	PRESENCE OR ABSENCE OF DOWNSTREAM NWA DATA TRANSMISSION	PRESENCE OR ABSENCE OF UPSTREAM NWA DATA RECEPTION	PRESENCE OR ABSENCE OF DOWNSTREAM FWA VoIP DATA TRANSMISSION	PRESENCE OR ABSENCE OF UPSTREAM FWA VoIP DATA RECEPTION
WITH TERMINAL 1	O	X	X	X	X	X
WITH TERMINAL 2	O	O	X	X	O	O
WITH TERMINAL 3	X	X	O	O	X	X
⋮	⋮	⋮	⋮	⋮	⋮	⋮
WITH TERMINAL 70	O	X	X	X	O	O
TOTAL (NUMBER OF O)	3	1	1	1	2	2

FIG. 6



		NUMBER OF UPSTREAM FWA TERMINALS									
		0	1	2	3	.	.	.	.	69	70
NUMBER OF UPSTREAM NWA TERMINALS	0	50	98	98	98					98	98
	1	2	50	66	75					98	
	2	2	33	50	60						
	3	2	25	40	50						
	.										
	.										
	.										
69	2	2									
70	2										

## FIG. 8

FWA-SECTION ADJUSTING COEFFICIENT	0: NOT CHANGED 1: FOUR TIMES LENGTH OF FWA SECTION 2: TWICE LENGTH OF FWA SECTION 3: HALF LENGTH OF FWA SECTION 4: ONE-FOURTH LENGTH OF FWA SECTION
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FIG. 9

ITEM	FWA TERMINAL VoIP	FWA TERMINAL TCP/UDP	NWA TERMINAL
CWmin	FIXED TO 1 FOR DOWNSTREAM SET LESS THAN 15 FOR UP- STREAM (TO BE DETERMINED BY SIMULATION)	DETERMINED BY SIMULATION FOR UPSTREAM AND DOWN- STREAM	15
CWmax	DETERMINED BY SIMULATION FOR UPSTREAM AND DOWN- STREAM	FIXED TO 1023	FIXED TO 1023
AIFS/DIFS	25 $\mu$ s(=PIFS)	34 $\mu$ s(=DIFS)	34 $\mu$ s(=DIFS)
REMARKS	VARIABLE FOR UPSTREAM ACCORDING TO RATIO OF BASE STATION TO TERMINALS	VARIABLE FOR UPSTREAM ACCORDING TO RATIO OF BASE STATION TO TERMINALS VARIABLE ALSO FOR DOWN- STREAM	FIXED

FIG. 10

(a)

NUMBER OF UPSTREAM ACTIVE TERMINALS	NUMBER OF DOWNSTREAM ACTIVE TERMINALS					
	0-5	6-10	11-20	21-35	36-50	51-60
0-5						
6-10						
11-20						
21-35						
36-50						
51-70				0 TO 5 VoIP TERMINALS		
				6 TO 10 VoIP TERMINALS		
				10 VoIP TERMINALS OR MORE		

PARAMETERS

(b)

DATA TYPE	BASE STATION/ TERMINAL	PARAMETER	RANGE
ORDINARY DATA	BASE STATION	CWmin	0 ~ 1023
		CWmax	0 ~ 1023
		AIFS	0 ~ 4
	TERMINAL	CWmin	0 ~ 1023
		CWmax	0 ~ 1023
		AIFS	0 ~ 4
VoIP	BASE STATION	CWmin	0 ~ 1023
		CWmax	0 ~ 1023
		AIFS	0 ~ 4
	TERMINAL	CWmin	0 ~ 1023
		CWmax	0 ~ 1023
		AIFS	0 ~ 4

FIG. 11

ITEM NAME	LENGTH (Bytes)	VALUE	REMARKS
ORDINARY-DATA UPSTREAM INDIVIDUAL TRAFFIC CONTROL COEFFICIENT	2	0-4	0: NOT CHANGED 1: FOUR TIMES CW <sub>min</sub> 2: TWICE CW <sub>min</sub> 3: HALF CW <sub>min</sub> 4: ONE-FOURTH CW <sub>min</sub>
ORDINARY-DATA DOWN- STREAM INDIVIDUAL TRAFFIC CONTROL COEFFICIENT	2	0-4	0: NOT CHANGED 1: ONE-FOURTH WEIGHT OF ROUND ROBIN 2: HALF WEIGHT OF ROUND ROBIN 3: TWICE WEIGHT OF ROUND ROBIN 4: FOUR TIMES WEIGHT OF ROUND ROBIN

FIG. 12

TERMINAL NO.	1	2	3	...	69	70
TERMINAL AID						
TERMINAL MAC ADDRESS						
ORDINARY DATA DOWNSTREAM CONTROL	0	0	2		3	0

0: NOT CHANGED

1: ONE-FOURTH WEIGHT OF ROUND ROBIN

2: HALF WEIGHT OF ROUND ROBIN

3: TWICE WEIGHT OF ROUND ROBIN

4: FOUR TIMES WEIGHT OF ROUND ROBIN (VALUES IN FIGURE ARE EXAMPLES)

FIG. 13

TRANSMISSION RATE [Mbps]	UPSTREAM TRANSMISSION RATE COEFFICIENT	DOWNSTREAM TRANS- MISSION RATE COEFFICIENT
54	0	0
48	0	0
36	0	0
24	2	2
18	2	2
12	1	1
9	1	1
6	1	1
	0: NOT CHANGED 1: FOUR TIMES CW <sub>min</sub> 2: TWICE CW <sub>min</sub> VALUES 0 TO 2 SHOULD BE ADJUSTED	0: NOT CHANGED 1: ONE-FOURTH WEIGHT OF ROUND ROBIN 2: HALF WEIGHT OF ROUND ROBIN VALUES 0 TO 2 SHOULD BE ADJUSTED

FIG. 14

FIELD NAME	LENGTH (Bytes)	VALUE	REMARKS
Element ID	1	50	EXTENDED FWA QoS PARAMETER
Length	1	8	
QoS COMMON TO ALL TERMINALS parameter (ORDINARY DATA)	2		CWmin, CWmax, AIFS
QoS COMMON TO ALL TERMINALS parameter (VoIP DATA)	2		CWmin, CWmax, AIFS

FIG. 15

FIELD NAME	LENGTH (Bytes)	VALUE	REMARKS
Element ID	1	54	TERMINAL-INDIVIDUAL QoS SETTING INFORMATION
Length	1	6	
WHETHER VoIP-ADDED SERVICE CONTRACT IS VALID OR INVALID	2		1: VoIP-ADDED SERVICE CONTRACT PRESENCE OTHERS: CONTRACT ABSENCE
ORDINARY-DATA UP-STREAM INDIVIDUAL TRAFFIC CONTROL COEFFICIENT	2	0-4	0: NOT CHANGED 1: FOUR TIMES CW <sub>min</sub> 2: TWICE CW <sub>min</sub> 3: HALF CW <sub>min</sub> 4: ONE-FOURTH CW <sub>min</sub>
ORDINARY-DATA DOWN-STREAM INDIVIDUAL TRAFFIC CONTROL COEFFICIENT	2	0-4	0: NOT CHANGED 1: ONE-FOURTH WEIGHT OF ROUND ROBIN 2: HALF WEIGHT OF ROUND ROBIN 3: TWICE WEIGHT OF ROUND ROBIN 4: FOUR TIMES WEIGHT OF ROUND ROBIN
TRANSMISSION TIME EQUALIZATION FUNCTION	2		0: INVALID OTHERS: VALID

FIG. 16

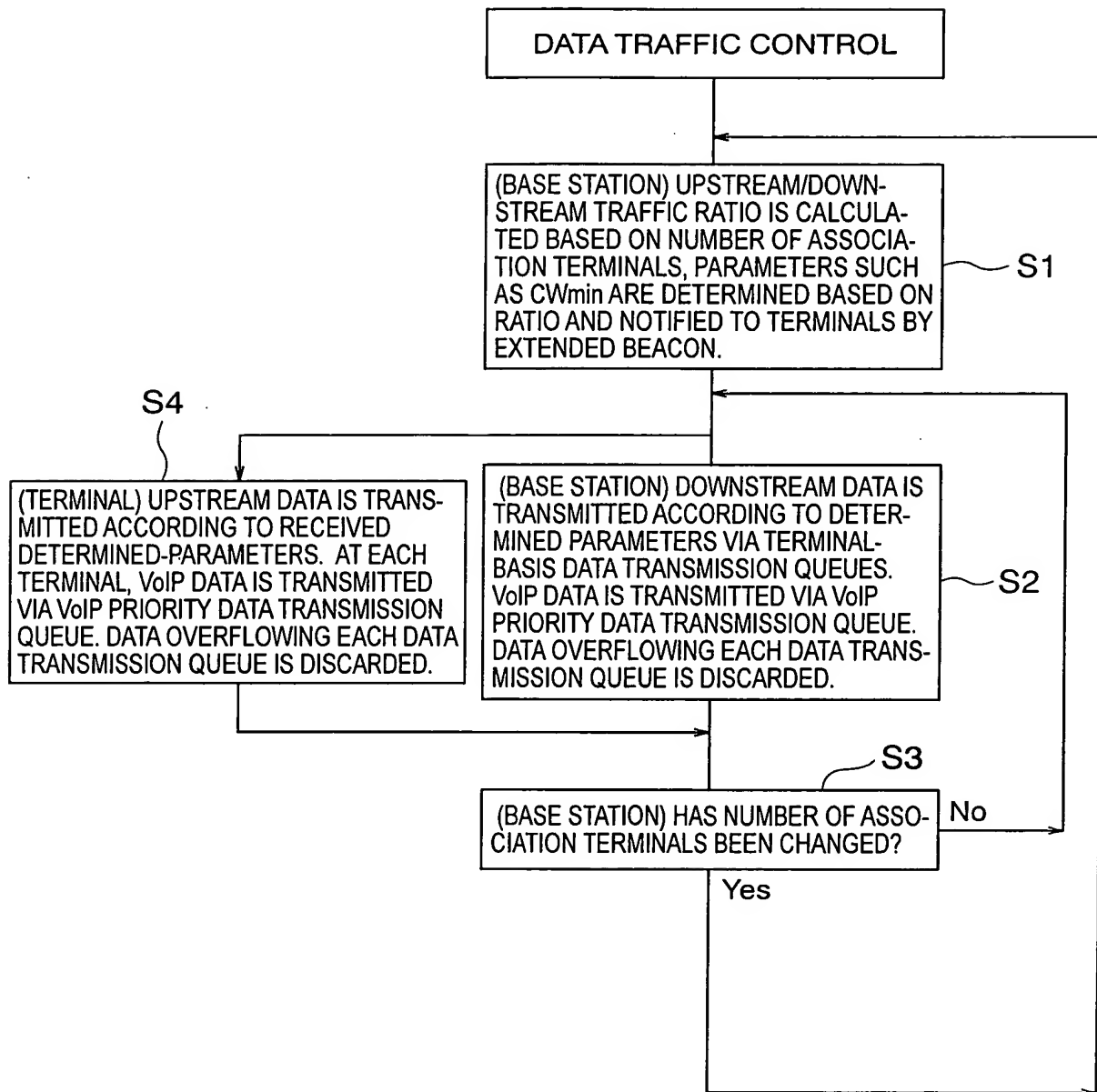
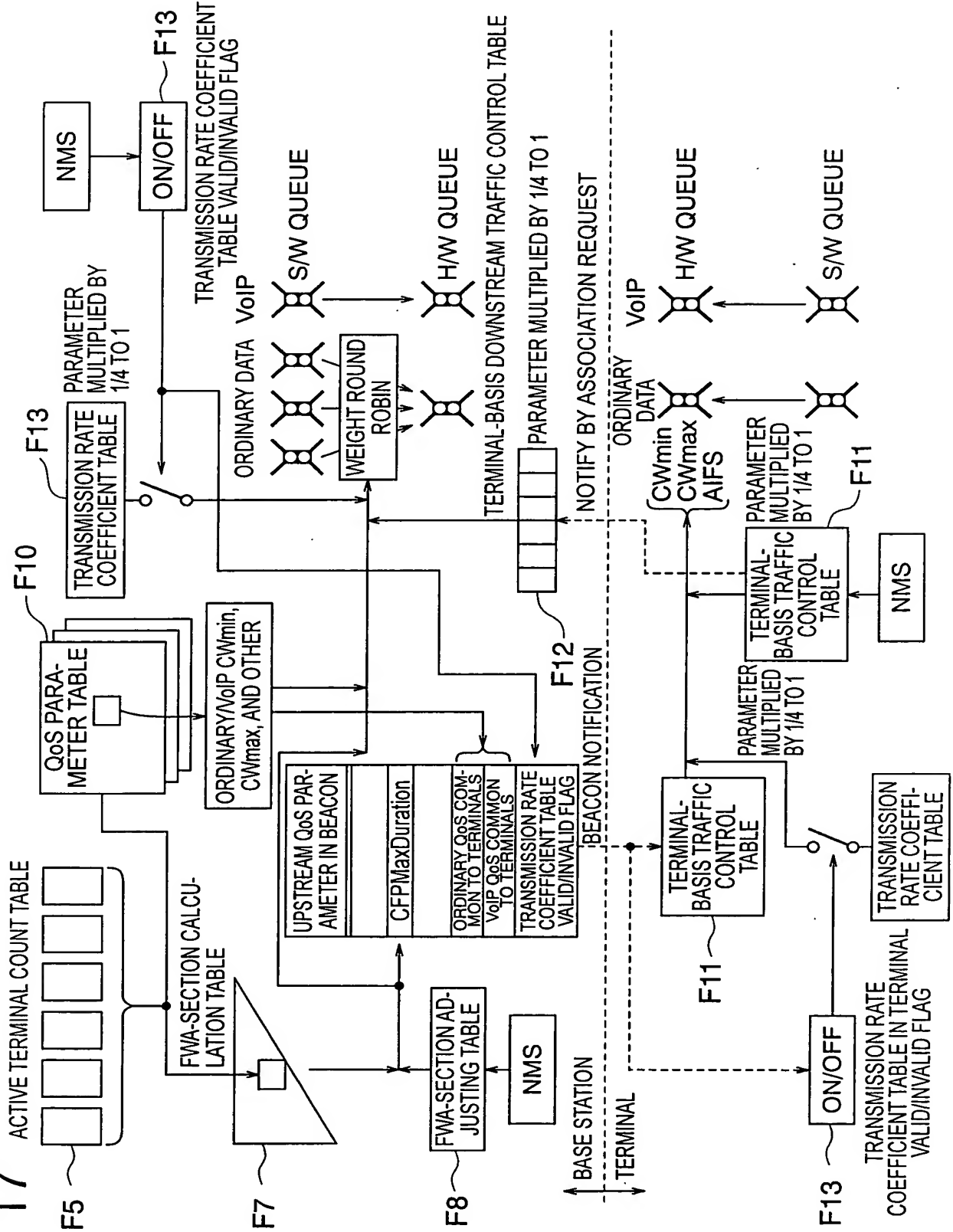
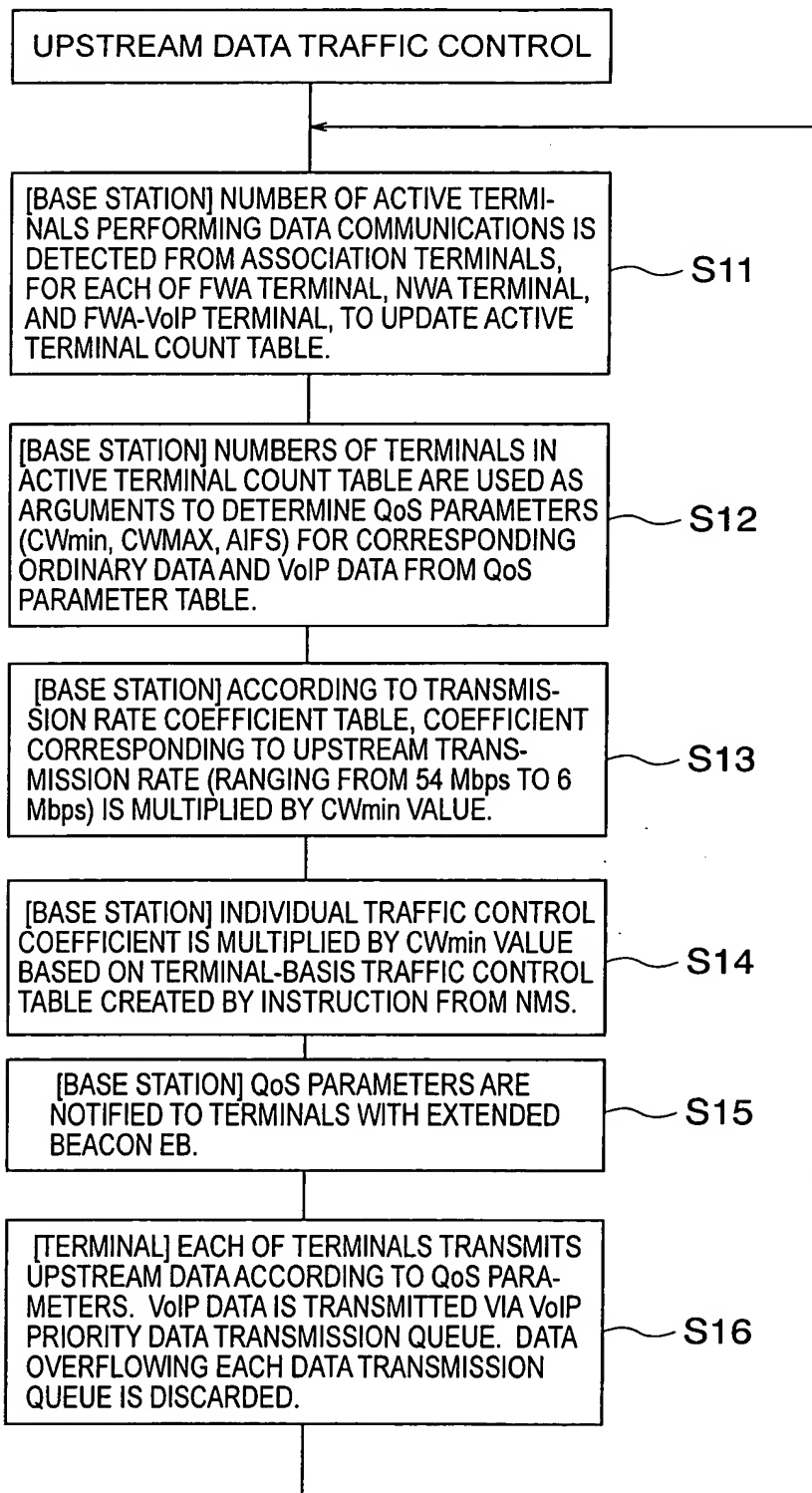




FIG. 17



## FIG. 18



## FIG. 19

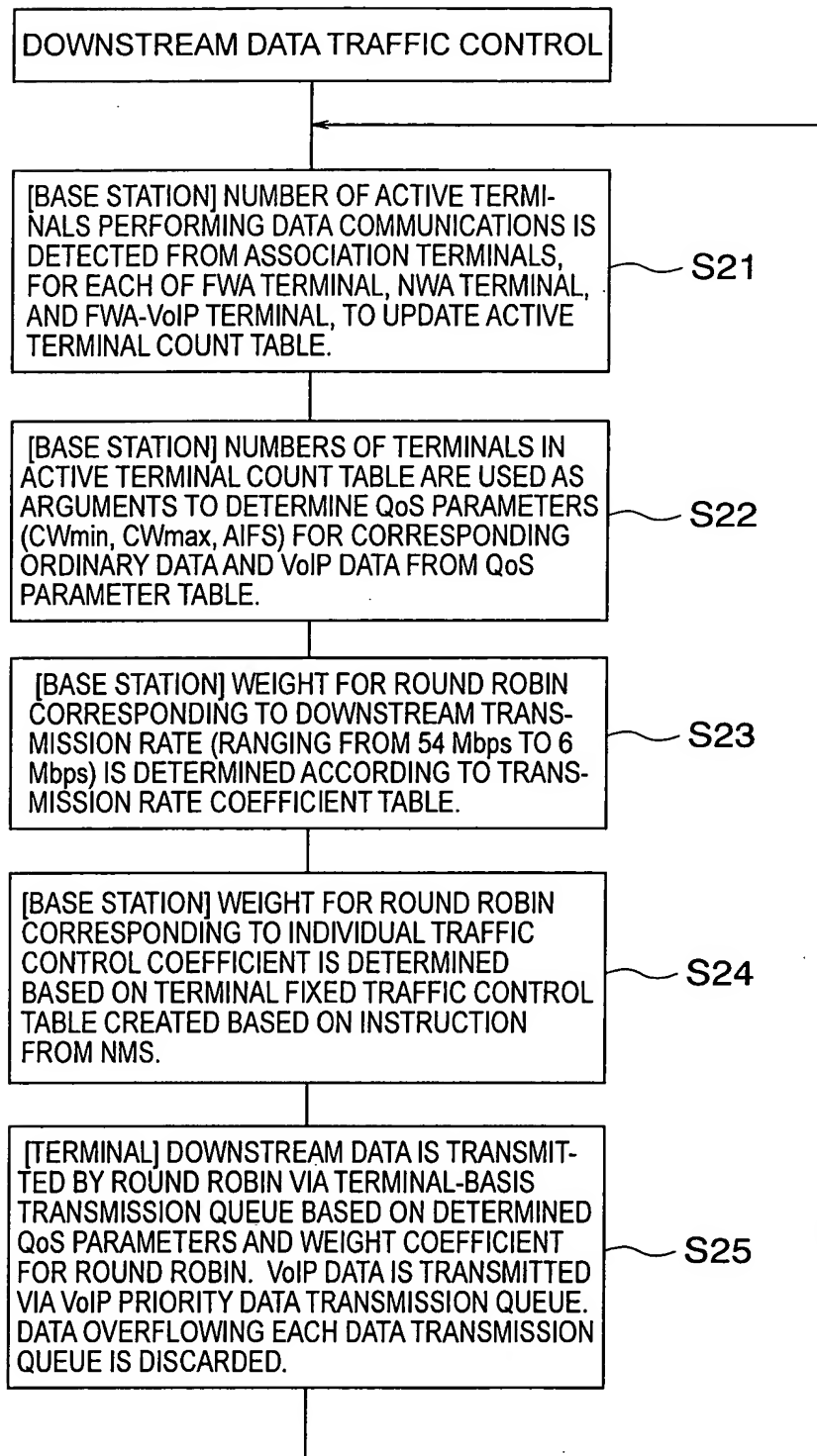




FIG. 20

